Radio Station File

CC Form No. 455

File Number I4-CL-301

Call Letters _____

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D. C.

APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE RADIO STATIONS IN THE WAR EMERGENCY RADIO SERVICE

Class of Station _____

(Space above this line for use of Federal Communications Commission.)

Submit one copy to the Federal Communications Commission, Washington, D. C. If application is for station to be located in Alaska, submit in duplicate to Inspector in Charge, Federal Building, Seattle, Washington. If for new license for Civilian Defense Radio Stations, also submit form 455-A, (Certification of Radio Aide).

TO THE FEDERAL COMMUNICATIONS COMMISSION:

. Name of applicant or station licensee:[1] City of Milwaukee, Wisconsin.

. Post-Office address: Street and Number 935 N. 8th. St.

City Milwaukee (3) State Wisconsin

. If application is for modification of existing station license, specify call letters _____ and file number _____ of existing license.

. If applicant is a State Guard organization, submit copy of Act or Order creating such organization.

[1] Section 15.61 of the Rules provides that "Authorizations for civilian defense stations will be issued only to instrumentalities of local government such as cities, towns, counties, etc."

Section 15.81 of the Rules provides that "Authorizations for state guard stations will be issued only to the official state guard or comparable organizations of a state, territory, possession, or the District of Columbia."

(a) List all transmitters proposed to be operated under the requested license. If application is for modification of license for additional transmitters, list all transmitters proposed to be used under the modified license. (Retain the unit numbers now assigned to the transmitters now specified in the outstanding license.)

T	MANUFACTURER	TYPE OR MODEL	RATED POWER INPUT (FINAL)	TYPE OF EMISSION PROPOSED	INDICATE WHETHER FIXED, PORTABLE OR PORTABLE-MOBILE
	Composite	MRAC1	25 watts	A-3	Fixed
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	MRAC2	8 "	"	Mobile
	"	MRAC1	25 watts	"	Fixed
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	MRAC2	8 watts	"	Mobile
	"	"	"	"	"
	"	MRAC1	25 watts	"	Fixed
	"	"	"	"	"
	"	"	"	"	"
	"	MRAC2	8 watts	"	Mobile
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"

(If additional space is needed, attach a sheet arranged in this manner. Unit numbers must be consecutive, starting with unit number 41.) If license is granted, these unit numbers must be permanently affixed to each transmitter.

(b) Applicant hereby affirms that it owns or has possession of the transmitters listed under Item 5(a).

Furnish the following information for EACH TYPE of transmitter listed in Item 5(a). (Attach additional sheets if required.)

(a) MANUFACTURER Composite (if composite, so state) (b) UNIT NUMBERS 1-12, 14-17, 20-22. (from Item 5(a), column 1)

(c) Tube complement:

MRAC 1

	Number and type of tubes	Normal plate current per tube	Plate voltage
Oscillator stage	6L6G	60 MA	400
Intermediate stages			
Final radio stage			
Modulator	6L6G	60 MA	400

(d) Describe type of oscillator circuit Ultraudion with horseshoe inductance.

(e) Describe type of power supply for last radio stage High vacuum rectifier

Rating: Current 150 MA Voltage 400 volts

(f) State type or class of modulation. Plate modulated oscillator

1. Which radio stage is to be modulated? Oscillator
2. State maximum percentage of modulation 100%
3. If frequency modulated state total frequency swing

(g) Indicate the radio frequency range of the transmitter 110 - 120 mc

(h) Within how many cycles or within what percentage is this apparatus designed or guaranteed by the manufacturer to hold the operating frequency?

0.1%

(i) Is this transmitter crystal controlled? No If so, state type, number and name of manufacturer of frequency control apparatus

(a) What provision will be made for measurement and periodic checking of the station frequency? Frequencies of all stations will be checked by Unit 1 at beginning of all tests.

(b) What type of frequency measurement or calibration apparatus will be used?

Either of the two Lampkin type 105 frequency meters of the Milwauke Police Department.

(c) Within how many cycles or within what percentage will this apparatus measure the frequency? 0.005%

(d) What methods will be used to check the calibration of this instrument?

Beat against 46th harmonic of WPDK (2450 kc) falls on 112,700 kc. Also checked against WWV.

(e) How often will this instrument be checked? Weekly routine of Police Dept.

(a) If any stations are proposed to be operated permanently at fixed locations furnish the following information for each location:

	STREET AND NUMBER	CITY AND STATE	MAXIMUM HEIGHT OF ANTENNA ABOVE GROUND[1]
it 1	935 N. 8 St.	Milwaukee, Wis.	120 ft.
it 2	1003 S. 6 St.	Milwaukee, Wis.	50 ft.
it 3	4715 W. Vliet St.	Milwaukee, Wis.	45 ft.
it 4	2156 S. Allis St.	Milwaukee, Wis.	45 ft.
it 5	2804 N. 3 St.	Milwaukee, Wis.	40 ft.
it 6	3220 W. Burnham St.	Milwaukee, Wis.	48 ft.
it 7	3172 N. 36 St.	Milwaukee, Wis.	55 ft.
it 8	7302 W. National Av.	West Allis, Wis.	65 ft.
it 9	1501 Underwood Ave.	Wauwatosa, Wis.	51 ft.
it 10	3930 N. Murray Ave.	Shorewood, Wis.	50 ft.
it 11	2005 - 10th. Ave.	South Milwaukee, Wis.	52 ft.
it 12	3617 E. Layton Ave	Cudahy, Wis.	53 ft.
it 14	4755 W. Beloit Road	West Milwaukee, Wis.	32 ft.
it 15	6500 Northway	Greendale, Wis.	50 ft.
it 16	822 W. Kilbourn Ave.	Milwaukee, Wis.	130 ft.
it 17	7030 N. pt. Washington	Town of Milwaukee, Wis.	30 ft.
it 20	4160 N. Richard St.	Milwaukee, Wis.	55 ft.
it 21	200 E. Wells St.	Milwaukee, Wis.	140 ft.
it 22	1747 N. 12th. St.	Milwaukee, Wis.	92 ft.

(b) Will the antenna structure and support be painted and lighted to conform to the specifications of the Civil Aeronautics Administration? No

If the answer is "NO" state the reasons which would indicate the lack of necessity for painting and lighting. (Such as low height, height of surrounding buildings and structures, absence of aircraft operation, etc.) All antennas will be below the top of the building chimney or flagpole.

(c) If authority is requested to operate any station by remote control, supply the following information for each station: None.

LOCATION OF STATION: _____
Number Street City State

LOCATION OF REMOTE CONTROL POINT:

_____
Number Street City State

Can the transmitter be placed in an inoperative condition from this control point?

_____

By what means will the transmitter be rendered inaccessible to unauthorized persons?

_____

Describe monitoring equipment installed at the remote control point to determine that the transmitter is at all times operating in accordance with the terms of the authorization. _____

[1] If greater than 100' in height above the ground, or located within 5 miles of an airport or established airway, submit FCC Form 401-A (supplemental antenna data) in triplicate for each location.